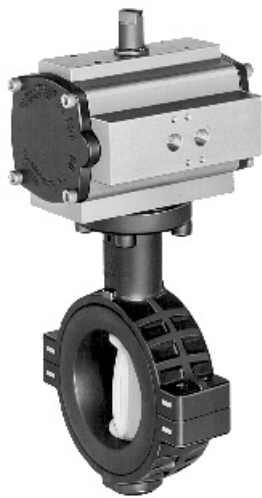




Type 450 Pneumatically Operated

Nominal Bore (ID)		Pressure Range	*Control Pressure	**Control Function	End Connections	Body Material	Seal Material
mm	Inch	psi	psi				
65	2-1/2"	0-90	30-90	Normally closed	Wafer type flange; PN 10	PES	EPDM
80	3"	0-90	30-90	Double acting			

*Control Pressure will vary depending on actuator size and/or control function
 **By rotating the actuator 90°, it is possible to achieve Normally Open



Type 451 Pneumatically Operated

Nominal Bore (ID)		Pressure Range	*Control Pressure	**Control Function	End Connections	Body Material	Disc Material	Seal Material
mm	Inch	psi	psi					
65	2-1/2"	0-90	45-90	Normally closed	Wafer type flange; PN 10	PES	PVDF	EPDM
80	3"	0-90	45-90	Double acting				
100	4"	0-90	45-90			GFK	PP	NBR
125	5"	0-90	45-90					
150	6"	0-90	45-90					
200	8"	0-90	45-90					
250	10"	0-90	45-90					

*Control Pressure will vary depending on actuator size and/or control function
 **By rotating the actuator 90°, it is possible to achieve Normally Open



Type 413 Motorized

Nominal Bore (ID)		Pressure Range	Power Supply	Cv (gal/min)	End Connections	Disc Material	Body Material	Seal Material
mm	Inch	psi						
15	1/2"	0-90	24, 115,	8.19	Metric & IPS, Plain sockets for solvent welding, True Union.	PVDF	PVC	EPDM
20	3/4"	0-90	230V/50-60Hz	15.21				
25	1"	0-90		19.89		PP		FPM

*Direct application of 4-20mA control signals by means of additional module.



Type 423 Motorized

Nominal Bore (ID)		Pressure Range	Power	C _v	End	Body	Seal
mm	Inch	psi	Supply	(gal/min)	Connections	Material	Material
15	1/2"	0-90	Standard Voltage	8.19	Plain sockets for solvent welding; Threaded spigots.	PVC	EPDM FPM
20	3/4"	0-90	12,24V DC	15.21			
25	1"	0-90	Special Voltages	19.89			
32	1-1/4"	0-90	12,24V 50/60Hz AC	39.78			
40	1-1/2"	0-90	100-250V 50/60 Hz AC	59.67			
50	2"	0-90		105.30			



Type 453 Motorized

Nominal Bore (ID)		Pressure Range	Power	End	Body	Disc	Seal
mm	Inch	psi	Supply	Connections	Material	Material	Material
65	2-1/2"	0-90	115V 50Hz,	Wafer type flange; PN 10	GFK	PVDF	EPDM
80	3"	0-90	230V, 50/60Hz		PES	PP	NBR
100	4"	0-90	24V d.c.				
125	5"	0-90					
150	6"	0-90					
200	8"	0-90					
250	10"	0-90					



Specifications for all valve types

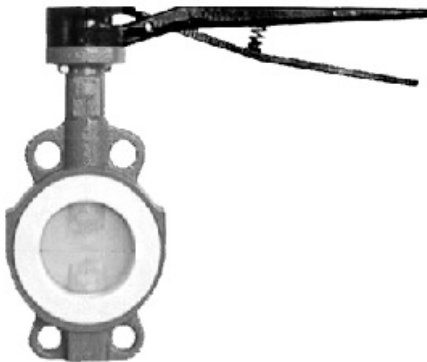
Nominal Bore (ID)*		Pressure Range	Cv (gal/min)	Disc-Shaft, one piece
mm	Inch			
32/40	1-1/2"	0-240	-	Stainless Steel AISI 316L,
50	2"	0-240	421.20	Stainless Steel AISI 316L polished,
65	2-1/2"	0-240	596.70	Disc 1.4435, PFA coated
80	3"	0-240	1006.20	Shaft 1.4435, AISI 316L,
100	4"	0-240	1579.50	Disc 1.4435, PVDF coated
125	5"	0-240	2761.20	Shaft 1.4435, AISI 316L,
150	6"	0-240	4188.60	Disc 1.4435, PP coated
200	8"	0-150	6165.90	Shaft 1.4435, AISI 316L,
250	10"	0-150	4188.60	Uranus 1.4539,
300	12"	0-150	6165.90	Hastelloy® C22 2.4602,
350	14"	0-150	-	Titan 3.7035.
400	16"	0-150	-	

Gearbox Material:
Aluminum, Polyurethan coated



Disc-Shaft, one piece	Liner/ Backup	Body Type	Body Material
Stainless Steel AISI 316L, Stainless Steel AISI 316L polished, Disc 1.4435, PFA coated Shaft 1.4435, AISI 316L, Disc 1.4435, PVDF coated Shaft 1.4435, AISI 316L, Disc 1.4435, PP coated Shaft 1.4435, AISI 316L, Uranus 1.4539, Hastelloy® C22 2.4602, Titan 3.7035.	PTFE/Silicon, PTFE/EPDM, PTFE/Hypalon, PTFE/Viton, PTFE for Vacuum or Chlorine applications, Hostafon TFM 1700.	Wafer LUG Body	Ductile Iron Stainless steel

Pneumatic Actuators:
Air Supply 90 psi



Handlever Material:
GGG40, Epoxy coated

Specifications for all valves



Handlever[†] Material:
Aluminum, Epoxy coated
Polyamide PA 6, 30% glass fibers reinforced



Pneumatic[†] Actuators:
Air Supply 90 psi



Gearbox[†] Material:
Aluminum, Polyurethan coated
Cast Iron, Polyurethan coated

Nominal Bore (ID)*		Pressure Range	Cv	Shaft
mm	Inch	psi	(gal/min)	
40	1-1/2"	0-240	-	Stainless Steel 1.4028, AISI420
50	2"	0-240	421.20	Stainless Steel 1.4404, AISI316
65	2-1/2"	0-240	596.70	
80	3"	0-240	1006.20	
100	4"	0-240	1579.50	
125	5"	0-240	2761.20	
150	6"	0-240	4188.60	
200	8"	0-240	6165.90	
250	10"	0-240	4188.60	
300	12"	0-240	6165.90	
350	14"	0-240	-	
400	16"	0-240	-	
450	18"	0-240	-	
500	20"	0-240	-	
600	24"	0-240	-	
700	28"	0-150	-	
800	32"	0-150	-	
900	36"	0-150	-	
1000	40"	0-150	-	
1100	44"	0-150	-	
1200	48"	0-150	-	

Disc	Liner*	Body Type	Body Material
Ductile Iron GGG40	EPDM	Wafer	Ductile Iron
Relson coated,	EPDM HT	LUG Body	Stainless steel
Ductile Iron GGG40	Nitrile	Flange Body	
Epoxy coated,	Nitrile carboxylit		
Cast Iron	Natural rubber		
Relson coated,	Butyl		
Cast Iron	Hypalon		
Epoxy coated.	Silicon		
	Viton		

*White liners on request

[†] Others styles available